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PATENT APPLICATION
ATTORNEY DOCKET NO. 10031482-1

IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Michael T. Barrett, Alicia F. Scheffer

Serial No.: Unassigned

Examiner: Unassigned

Filing Date: Herewith

Group Art Unit: N/A

Title: METHODS AND COMPOSITIONS FOR ASSESSING CpG METHYLATION

COMMISSIONER FOR PATENTS
PO Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- ☒ under 37 CFR 1.97(b), or
(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)
- ☐ under 37 CFR 1.97(c) together with either a:
☐ Statement under 37 CFR 1.97(e), or
☐ a \$180.00 Processing fee under 37 CFR 1.17(p), or
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97 (d) together with a:
☐ Statement under 37 CFR 1.97(e), and
☐ a \$180.00 processing fee under 37 CFR 1.17(p).
(Filed after final action or notice of allowance, whichever occurs first, but before payment of the issue fee)

Please charge to Deposit Account **50-1078** the sum of \$0.00. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account **50-1078** pursuant to 37 CFR 1.25.


☒ Applicant(s) submit herewith Form PTO 1449. References identified with an asterisk (*) were disclosed in Patent Application No. _____ filed _____, now U. S. Patent No. _____, and, as such, copies thereof are not included pursuant to the provisions of 37 CFR 1.98(d).

☐ A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individuals(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

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Date of Deposit **04-20-2004**

I hereby certify that this is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450.

By 
Typed Name: Donna Macedo

Respectfully submitted,

Michael T. Barrett, Alicia F. Scheffer

By 
Bret Field for Mike Beck

Attorney/Agent for Applicant(s)
Reg. No. **37,620**

Date: **04-20-2004**

FORM PTO-1449 LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 10031482-1	SERIAL NO. 00/000,000
	APPLICANT Michael Barrett, Alicia Scheffer	
	FILING DATE Herewith	GROUP N/A

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	*	DOCUMENT NUMBER	DATE	NAME
		US2003/0186250	10-2-2003	Shah
		US2002/0123053	09-04-2002	Luo et al.
		US2003/0211474	11/13/2003	Yakhini et al.
		US2003/0215842	11/20/2003	Sledziewski et al.

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	NAME	TRANSLATION	
					YES	NO
		WO02/086163	10/31/2002	Zabarovsky et al.		

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	HUANG et al. "Methylation profiling of CpG islands in human breast cancer cells" Human Molecular Genetics, 1999, Vol. 8, No. 3 459-470
	SMIRAGLIA et al. "A new tool for the rapid cloning of amplified and hypermethylated human DNA sequences from restriction landmark genome scanning gels" Genomics 58:254-262 (1999)
	GONZALGO et al. "Identification and characterization of differentially methylated regions of genomic DNA by methylation-sensitive arbitrarily primed PCR" Cancer Res. 57:594-599 (1997)

EXAMINER	DATE CONSIDERED
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* Copies of these references are not enclosed pursuant to 37 CFR 1.98(d). (See accompanying IDS)

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OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	TOYOTA et al. "Identification of differentially methylated sequences in colorectal cancer by Methylated CpG Island Amplification" Cancer Res. (1999) 59:2307-2312
	COTTRELL et al. "Sensitive Detection of DNA Methylation" Annals New York Academy of Sciences (2003) 983:120-130
	GITAN et al. "Methylation-specific oligonucleotide microarray: a new potential for high throughput methylation analysis" Genome Research 12:155-164 (2001)
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	KUTYAVIN et al. "Reduced aggregation and improved specificity of G-rich oligonucleotides containing pyrazolo [3,4-d]pyrimidine guanine bases" Nucleic Acids Research Vol. 30, No. 22 4952-4959 (2002)
	TAKAI et al. "Comprehensive analysis of CpG islands in human chromosomes 21 and 22" PNAS Vol. 99, No. 6, 3740-3745 (arch 19, 2002)
	STRICHMAN-ALMASHANU et al. "A genome-wide screen for normally methylated human CpG islands that can identify novel imprinted genes" Genome Research 12:543-554 (2002)

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	SVED et al. "The expected equilibrium of the CpG dinucleotide in vertebrate genomes under a mutation model" Proc. Natl. Acad. Sci. USA Vol 87, pp. 4692-4696 (June 1990)
	CHEN et al. "Methylation target array for rapid analysis of CpG island hypermethylation in multiple tissue genomes" American Journal of Pathology, Vol. 163, No.1 (July 2003)
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